Radio Frequency Exposure

Limit

According to 15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See 1.1307(b)(1) of this chapter.

EUT Specification

EUT	Heart Rate Monitor
Frequency band (Operating)	☑ Bluetooth : 2.402 GHz ~ 2.480 GHz ☐ WLAN : 2.412 GHz ~ 2.462 GHz ☐ WLAN : 5.745 GHz ~ 5.825 GHz ☐ WLAN : 5.18 GHz ~ 5.32 GHz / 5.50 GHz ~ 5.70 GHz
Device category	☑ Portable(< 20 cm separation) ☐ Portable(> 20 cm separation) ☐ Others
Exposure Classification	☐ Occupational/Controlled exposure(S = 5 mW/cm^2) ☑ General Population/Uncontrolled exposure(S=1 mW/cm^2)
Antenna diversity	☑ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Max. output power	5.7 dBm (3.68 mW)
Antenna gain(Max)	2 dBi (Numberic gain:2.238)
Evalution applied	☐ MPE Evaluation ☐ SAR Evaluation ☑ N/A
Remark : 1. The maximum output power is 5.7 dBm(3.68 mW) at 2405 MHz (with 2.238 numeric antenna gain.) 2. DSS device is not subject to routine RF evaluation;MPE estimate is used to justify the compliance. 3. For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm^2 even if the calculation indicates that the power density would be larger.	

Test Results

No non-compliance noted.

(SAR evaluation is not required for the Portable device while its maximum output power is lower than the general population low threshold: 60/f(GHz)=60/2.405=24.95 mW)